

ABSTRACT OF THE DISCLOSURE

There is provided a vibrator ~~10~~ which is integrally coupled to a rotating shaft ~~12~~ of a motor. A groove portion ~~13~~ in which the rotating shaft ~~12~~ is fitted is formed in an eccentric load portion ~~11~~, and side walls ~~14~~ ^{extending} ~~bulging~~ from the eccentric load portion ~~11~~ and forming both side edge portions of the groove portion ~~13~~ are ^{provided} ~~formed~~. A portion ~~14c~~ of a tip portion end surface ~~14a~~ of ^{each} ~~the~~ side wall ~~14~~, except ^{at} ~~an~~ outer peripheral portion ~~14b~~ of the side wall ~~14~~ and at a side of the groove portion, is caulked from an opening side of the groove portion ^{toward} ~~to~~ a bottom side, ^{thereof} ~~so that~~ the vibrator ~~10~~ is integrally coupled to the rotating shaft.